

### 1. PRODUCT NAME

LATAPOXY® 2000 Industrial Epoxy Grout

### 2. MANUFACTURER

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### 3. PRODUCT DESCRIPTION

LATAPOXY® 2000 Industrial Epoxy Grout is a highly chemical resistant industrial grade epoxy grout for: ceramic tile, pavers, floor brick, packing house tile and stone. LATAPOXY 2000 Industrial Epoxy Grout is supplied as factory proportioned kits consisting of epoxy resin, hardner, and chemical resistant silica filler.

**Usage** - Use in corrosive environments such as:

**Industrial** - bakeries, dairies, cheese factories, breweries, CIP rooms, meat packing plants, soft drink plants, confectioneries, canneries, distilleries, pharmaceutical factories.

**Commercial** - institutional kitchens, fast food restaurants, cafeterias, laboratories, supermarkets.

#### Advantages

- High chemical resistance
- Improved temperature resistance
- Highly resistant to bacteria attack
- Maximum physical strength
- Water cleanable
- Fast curing
- Cures at low temperature
- Meets USDA & USFDA requirements
- Exceeds ANSI 118.3-1999 (Epoxy) and ANSI 118.5-1999 (Furan) performance requirements

#### Packaging

##### Pail #2 size

Unit Net Weight: 10.9 kg

Unit Volume: 6.8 liters

##### Carton #4 Size

Unit Weight: 22.8kg

Unit Volume: 13.6 liters

Note: #2 and #4 units also available in separate components, liquids only and Part C Filler Powder

Colors: Standard Colors: grey and black, Custom colors available on request.

**Shelf Life** - Factory sealed containers of this product are guaranteed to be of first quality for two (2) years.

#### Limitations

- Maximum chemical resistance is achieved in seven (7) days at 21°C. Protect from exposure to strong chemicals until fully cured; at colder temperatures it takes longer to achieve full cure.
- Grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use LATICRETE Waterproof Membrane.
- Not for use with Bright White or light colored grouts. LATAPOXY 2000 Part C Filler Powder best used with the following grout colors: 04, 06, 07, 08, 11, 12, 14, 15, 22, 24, 25, 28, 30, 34, 35, 42, 46, 92, 71, 72, 76.

#### Cautions

- Protect finished work from chemical exposure, dirt and traffic until fully cured.
- Until cured, LATAPOXY 2000 industrial Epoxy Grout may irritate eyes and skin. Avoid contact with eyes and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

### 4. TECHNICAL DATA

#### Applicable Standards

- ANSI A118.3-1999, ANSI A118.5 - 1999 (American)
- BS 5980-1999 Type 5 Class AA (British)

#### Performance Properties

EVALUATION PER ANSI A118.3-1999		
PROPERTY TEST/ NO.	VALUE	
	EVALUATION	REQUIREMENT
Water Cleanability (E5.1)	Pass	80 min.
Initial Setting Time (E5.2)	Pass	> 2.0 hrs.
Service Setting Time (E5.2)	Pass	< 7 days
Shrinkage (E5.3)	0.07%	< 0.25%
Sag (E5.4)	Pass	no change
Quarry Shear Bonds (E5.5)	6.9MPa*	> 6.9 MPa
Compressive Strength (E5.6)	107 Mpa	> 24 MPa
Tensile Strength (E5.7)	18MPa	> 6.9 MPa
Thermal Shock (E5.8)	3.4MPa	> 3.4 MPa

\*=Tile Failed During Test

EVALUATION PER ANSI A118.5 - 1999			
Property	Test Method	Evaluation	Grout Requirement Silica
Compressive Strength	ASTM C579	101 MPa	21 MPa

Tensile Strength	ASTM C307	17.7 MPa	2.75 MPa
Absorption	ASTM C413	0.16%	Max. 1%
Modulus of Rupture	ASTM C580	37 MPa	4.1 MPa
Initial Set, Hours	ASTM C308	4	Max 5
Final Set, Days	ASTM C308	2	Max 7
Linear Shrinkage	ASTM C531	0.27%	Max. 1%
Working Time Minutes	ASTM C308	35	Min. 10
Bond Strength	ASTM C321	Pass*	1 MPa

\*=Brick Failed During Test

#### SERVICE TEMPERATURE RANGE\*\*

Intermittent Exposure	up to 182°C
Constant Exposure	up to 80°C

\*\*Service Temperature Exposure defined as: **Intermittent** - where hot materials, liquids or steam come in contact with grout for a short time. **Constant** - where grout is subjected to continuous heat such as under a bakery oven.

#### Working Properties 21°C

Working Time	35 minutes
Wet Density	1800 kg/m <sup>3</sup>

#### Time to Traffic

CURE TIME			
FLOOR TEMPERATURE	TIME TO LIGHT TRAFFIC*	TIME TO HEAVY TRAFFIC**	FULL CURE***
4°C	24 Hours	48 Hours	7 Days
10°C	20 Hours	32 Hours	7 Days
16°C	16 Hours	24 Hours	7 Days
21°C	5 Hours	10 Hours	5 Days
27°C	4 Hours	7 Hours	1 Day
32.2°C	2 Hours	3 Hours	12 Hours

\* Foot Traffic \*\* Place Equipment \*\*\* Exposure to Chemical and Heat

#### Chemical Resistance\* Chart

Chemical Name	Continuous Exposure	Inter-mittent Exposure	Splash Exposure
<b>Food Acids</b>			
Lactic to 10 %	R	R	R
Acetic to 10%	R	R	R
Formic to 5 %	R	R	R
Citric to 50%	R	R	R
Tartaric to 50%	R	R	R
Tannic to 50%	R	R	R
Oleic to 100%	R	R	R
Phosphoric to 80%	R	R	R
<b>Mineral Acids</b>			
Hydrofluoric acid** 10%	R	R	R
Sulfuric to 50%**	R	R	R
Nitric to 30%**	R	R	R
Hydrochloric to** 36.5%	R	R	R
<b>Corrosive Cleaners</b>			
Sodium Hypochlorite** (Bleach) 3%	R	R	R
Sodium Hydroxide (Saturated)	R	R	R
<b>Solvents</b>			
Xylene	R	R	R
Ethyl Alcohol	R	R	R
Mineral Spirits	R	R	R
Toluene	R	R	R
Methylene Chloride	NR	NR	NR

Gasoline	R	R	R
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\*Chemical Resistance defined as:

**Splash** - minor spill wiped up quickly such as in a laboratory.  
**Intermittent** - Exposure to chemicals where clean up takes place several times a day such as in a commercial kitchen.  
**Continuous** - heavy exposure to chemicals where clean up is less frequent such as in an industrial food plant.

**R=Recommended, NR=Not Recommended.** Chemical Resistance determined in accordance with ASTM C267-1999.

\*\* Long Exposure will cause color change.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

## 5. INSTALLATION

### Surface Preparation

Before starting to grout remove spacers and debris in grout and remove dust and dirt using a damp sponge. Do not leave water standing in joints.

Do not clean tiles with acid cleaners. Substrate temperature must be between 7°C and 32°C.

**Note:** Temperature will effect working properties of LATAPOXY 2000 Industrial Epoxy Grout. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY 2000 Industrial Epoxy Grout at 21°C for 24 hours prior to use.

**Mixing** - Pour LATAPOXY 2000 Industrial Epoxy Grout Part A and Part B into a clean mixing pail and mix thoroughly by hand or with a slow speed mixer (<300 RPM) until liquids are completely blended. **Note: For vertical installations add Part D at this time.** Add LATAPOXY 2000 Part C Filler Powder and mix until uniformly blended.

**Application** - Immediately pour entire contents of pail onto a flat surface (Do Not Leave in Pail). Spread with a sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Insure that joint is filled and grout is not just sitting on top (i.e. "bridging the joint").

**Cleaning** - Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material. Clean using a white nylon pad and plenty of cool, clean water. For detailed application instructions and coverage information refer to Data Sheet 631.5.

## 7. WARRANTY

LATICRETE Pty Ltd. warrants that LATAPOXY 2000 Industrial Epoxy Grout is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of ten (10) years from date of purchase. When used as a complete system subject o the terms and conditions stated in Data Sheet 230Saus, a complete system warranty applies.

## 8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.